

**IMPROVED SCHEME FOR THE INITIALIZATION OF ADSL  
MODEMS**

**ABSTRACT OF THE DISCLOSURE**

5           Method and apparatus for improving asymmetric digital subscriber line  
(ADSL) communication over long loop distances. The method includes identifying sub-  
channels having an anticipated highest performance for communication, communicating the  
identified sub-channels between first and second ADSL transceivers, and transmitting  
initialization information for the communications link over the identified sub-channels. This  
10 improves link performance over a traditional system that uses fixed sub-channels for  
transmitting the initialization information.

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